

**BUFFER TO BUFFER CREDIT RECOVERY FOR IN-LINE FIBRE CHANNEL  
CREDIT EXTENSION DEVICES**

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ABSTRACT OF THE DISCLOSURE

A method and system for credit recovery of lost frames and R\_RDYs in an in-line credit extender is provided. The method includes, comparing received frame count and a  
10 programmable counter value when BB\_SCs are received; loading the difference between the frame count and the programmed counter value into a buffer and to a first counter that counts each frame that is transmitted; and sending BB-SCs to the local device if there is a match between the first  
15 counter value and a second programmable counter value. The method also includes, counting received R\_RDYs, wherein a first counter counts the received R\_RDYs; setting a flag when a BB\_SCr is received; and transmitting BB-SCr when the first counter value is zero and the flag is set. Also,  
20 R\_RDYs received after BB\_SCrs are counted by a second counter and transmitted when the second counter value is non-zero.